<span style="color:red">**AMENDMENT II – AMENDED**</span> **ATTACHMENT B**
**SURFACE DECISION SUPPORT SOFTWARE DEVELOPMENT**
**PERSONNEL QUALIFICATIONS**

**0001AA Senior Program Manager / Analyst (Immediate)**

<u>Job Description</u>
Manages all aspects of program performance as required in the contract. Develops, directs, coordinates and controls technical and administrative activities performed under the contract. Serves as primary point of contact for work to be performed. Supervises project leaders in the executions of their programs. Ensures that all assignments are completed in a timely and thorough manner. Reviews and maintains quality of technical work. Ensures that all contract personnel have proper qualifications and are utilized properly to perform the tasks under the contract. Reviews and maintains responsibility of program financials. Makes technical judgments and provides advice on the resolution of technical, schedule, performance or budgetary problems. Drafts Surface TBO planning and Acquisition Management System documents, such as test plans, site survey reports, preliminary Program Requirements (pPR), Concept of Use (ConUse), and Shortfall Analysis.
<u>Education</u>
BS in engineering or other technical field
MS in engineering or business
<u>Experience</u>
Minimum of 15 years technical aviation experience
Minimum of 10 years program management experience with direct supervision of technical personnel involved in life-cycle management support of complex aviation systems - specific knowledge and experience includes personnel management and supervision, program schedule and budget control, and contract management
Detailed understanding of SDSS data sources, interfaces and architectures
Experience with the FAA's Acquisition Management System

**0001AB Senior Systems Integration Engineer (Immediate)**

<u>Job Description</u>
Performs tasks that include, but are not limited to, requirements analysis, cost / cost performance trade-off analysis, testing, feasibility analysis, regulatory compliance support, technology conceptual designs, and special studies and analyses. Provides program information and coordinates and develops service implementation plans, schedules, disseminates reports and conducts briefings for all various levels of management. Contributes to the development of future NAS standards and procedures. Interprets and converts current and future program objectives and requirements into plan and projects for the establishment, modernization and improvement of the NAS. Coordinates and develops system specifications. Responsible for requirements design, analysis and validation. Detailed configuration management and tracking of requirements and system engineering coordination with customer. Performs traceability analyses, and generation and conduct of comprehensive test programs, including developmental and regression testing.
<u>Education</u>
MS or higher in an engineering or equivalent<span style="color:red">*</span> technical field

<u>Experience</u>
Minimum of 10 years technical experience in the major area of full life-cycle system engineering involving concept development and requirements analysis
Minimum 10 years aviation related technical experience
Detailed understanding of SDSS data sources, interfaces and architectures
Experience with the FAA's Acquisition Management System
Knowledge and experience with the FAA's information security policies and orders highly desirable

## 0001AC Subject Matter Expert III (Surface Traffic Management) (Immediate)

<u>Job Description</u>
Performs tasks that include, but are not limited to, requirements analysis, cost / cost performance trade-off analysis, feasibility analysis, regulatory compliance support, technology conceptual designs, and special studies and analyses.  Contributes to the development of future NAS standards and procedures. Interprets and converts current and future program objectives and requirements into plan and projects for the establishment, modernization and improvement of the NAS. Coordinates and develops system specifications.  Supports requirements design, analysis and validation.  Supports working group activity with airport users and STM vendors.  Reviews and comments on draft Surface TBO planning and Acquisition Management System documents, such as test plans, site survey reports, preliminary Program Requirements (pPR), Concept of Use (ConUse), and Shortfall Analysis.
<u>Education</u>
MS or higher in engineering or other technical field
<u>Experience</u>
Minimum 10 years aviation related technical experience
Minimum 5 years related technical experience in surface traffic management
Detailed understanding of SDSS data sources, interfaces and architectures
Experience with the FAA's Acquisition Management System

## 0001AD Principal Software Engineer (Immediate)

<u>Job Description</u>
Design and development of complex algorithms for application in a real-time operational environment using advanced mathematics and optimization theory.  Software design, development, testing and documentation.  Development of new software system features and fixes for software problem reports.  Analysis and improvement of software system performance.
<u>Education</u>
MS or higher, or equivalent<u>*</u>, in Engineering, Computer Science or related field
<u>Experience</u>
Minimum five (5) years of experience with algorithm design and software development, preferably in Java
Experienced in a Linux or UNIX environment, as well as a Windows environment
Experience with Aviation and/or Air Traffic Control

## 0001AE Senior Software Engineer (Immediate)

<u>Job Description</u>

Design and development of complex algorithms for application in a real-time operational environment using advanced mathematics and optimization theory. Software design, development, testing and documentation. Development of new software system features and fixes for software problem reports. Analysis and improvement of software system performance.

Education
BS or higher in Engineering, Computer Science or related field

Experience
Minimum three (3) years of experience with algorithm design and software development, preferably in Java
Experienced in a Linux or UNIX environment, as well as a Windows environment
Experience with Aviation and/or Air Traffic Control

### 0001AF Senior Database Administrator (Immediate)

Job Description
Design and development of complex databases for application in a real-time operational environment. Maintain legacy databases - ensure operation, performance tuning, back-ups, security, users support. Develop new or extending old databases – data modeling, database designing. Maintain database documentation – creating, updating. Data analysis – on demand requests for data, queries, data analysis, and data mining. Software projects support – integration, database access, testing, troubleshooting, and maintaining development projects.

Education
MS or higher, or equivalent*, in Engineering, Math, Business Computer Systems, Computer Science or related field

Experience
Minimum five (5) years of experience with database design and software development, preferably in Oracle
Experienced in a Linux or UNIX environment, as well as a Windows environment
Experience with Aviation and/or Air Traffic Control

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### 0001 AG Database Administrator (Immediate)

Job Description
Design and development of complex databases for application in a real-time operational environment. Maintain legacy databases - ensure operation, performance tuning, back-ups, security, users support. Develop new or extending old databases – data modeling, database designing. Maintain database documentation – creating, updating. Data analysis – on demand requests for data, queries, data analysis, and data mining. Software projects support – integration, database access, testing, troubleshooting, and maintaining development projects.

Education
BS or higher in Engineering, Math, Business Computer Systems, Computer Science or related field

Experience
Minimum three (3) years of experience with database design and software development, preferably in Oracle
Experienced in a Linux or UNIX environment, as well as a Windows environment

Experience with Aviation and/or Air Traffic Control

**0001AH Sr. Project Analyst (Air Traffic Control) (Immediate)**

Job Description

Performs tasks that include, but are not limited to, requirements analysis, cost / cost performance trade-off analysis, feasibility analysis, regulatory compliance support, technology conceptual designs, and special studies and analyses.  Contributes to the development of future NAS standards and procedures. Interprets and converts current and future program objectives and requirements into plan and projects for the establishment, modernization and improvement of the NAS. Coordinates and develops system specifications.  Supports requirements design, analysis and validation. Supports working group activity with airport users and STM vendors.  Reviews and comments on draft Surface TBO planning and Acquisition Management System documents, such as test plans, site survey reports, preliminary Program Requirements (pPR), Concept of Use (ConUse), and Shortfall Analysis.

Education

BS or higher, or equivalent*, in Engineering, Math, Business Computer Systems, Computer Science or related field

Experience

Minimum 5 years air traffic control experience

Minimum 3 years related technical experience in air traffic control automation development

Experience with the FAA's Acquisition Management System


* Equivalent means an additional five (5) years of work experience beyond that required under Experience